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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,868 09/08/2003		Sam Yang	2000-0719.01/US 1870		
7590 06/13/2005			EXAMINER		
Kevin D. Martin			CHEN, BRET P		
8000 S Federal Way MS 1-525			ART UNIT	PAPER NUMBER	
Boise, ID 837	07-0006	1762			

DATE MAILED: 06/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)	
055 4	-4: C	10/658,868		YANG, SAM	
Office Action Summary		Examiner		Art Unit	_
		B. Chen		1762	
The MAILING Period for Reply	G DATE of this communication ap	pears on the c	over sheet with the c	orrespondence add	'ess
THE MAILING DAT - Extensions of time may be after SIX (6) MONTHS fr - If the period for reply spe - If NO period for reply is 5 - Failure to reply within the Any reply received by the	EATUTORY PERIOD FOR REPLE OF THIS COMMUNICATION. e available under the provisions of 37 CFR 1. om the mailing date of this communication. cified above is less than thirty (30) days, a repecified above, the maximum statutory period set or extended period for reply will, by statut Office later than three months after the mailing timent. See 37 CFR 1.704(b).	136(a). In no event, bly within the statuto will apply and will e e, cause the applica	however, may a reply be tim y minimum of thirty (30) days pire SIX (6) MONTHS from tion to become ABANDONEI	ely filed will be considered timely. the mailing date of this corr () (35 U.S.C. § 133).	munication.
Status ·					
2a)☐ This action is 3)☐ Since this ap	FINAL. 2b) Thi Dication is in condition for alloward	s action is nor ance except fo	r formal matters, pro		nerits is
Disposition of Claims					
4a) Of the above 5) ☐ Claim(s) 6) ☒ Claim(s) <u>1-11</u> 7) ☐ Claim(s)		awn from cons	·		
Application Papers					
10)⊠ The drawing(s Applicant may Replacement d	on is objected to by the Examinal filed on <u>08 September 2003</u> is not request that any objection to the rawing sheet(s) including the corrected around its objected to by the E	/are: a)⊠ acc drawing(s) be l ction is required	neld in abeyance. See if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR	1.121(d).
Priority under 35 U.S.	C. § 119				
12) Acknowledgm a) All b) S 1. Certifie 2. Certifie 3. Copies applica	ent is made of a claim for foreignome * c) None of: d copies of the priority documend copies of the priority document of the certified copies of the priority document from the International Bureated detailed Office action for a list	ts have been its have been its have been its document its (PCT Rule 1	eceived. eceived in Applications have been receive 7.2(a)).	on No d in this National S	age
Attachment(s)					
	s Patent Drawing Review (PTO-948) Statement(s) (PTO-1449 or PTO/SB/08)	5)	Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa Other:	e	52)
i. Patent and Trademark Office FOL-326 (Rev. 1-04)	Office A	ction Summary	F	art of Paper No./Mail D	ate 060805

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7.

DETAILED ACTION

Claims 1-11 are pending in this application, which is a DIV of Serial Number 09/710626 now US Patent 6,617,248.

Specification

The disclosure is objected to because of the following informalities listed below.

Appropriate correction is required.

In the first sentence of the specification, an updated lineage of the present application should be provided.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 line 6, the phrase "smooth-surfaced" is deemed a relative term which renders the claim indefinite. The term "smooth" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The same issue applies to claims 4 and

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-11 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 6,617,248.

Although the conflicting claims are not identical, they are not patentably distinct from each other because the elimination of forming a semiconductor device is an obvious variation.

Jin (6,479,100) discloses a method of forming a CVD ruthenium seed layer on a substrate by introducing a ruthenium-containing precursor and oxygen into a CVD apparatus and annealing the deposited seed layer in a gas ambient to form the ruthenium seed layer (col.2 lines 3-14) and is the most relevant art. Shiho et al. (6,875,518), and Agarwal et al. (6,596,583), and Lyons et al. (6,649,211) are cited as relevant art.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bc 6/8/05

BRET CHEN PRIMARY EXAMINER